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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: RICHARD MICHAEL GOOCH
Serial No.: NOT YET ASSIGNED PCT No.: PCT/GB01/01590
Filed: APRIL 5, 2002
Title: MEASUREMENT SYSTEM AND METHOD

PRELIMINARY AMENDMENT

Box PCT
Commissioner for Patents
Washington, D.C. 20231

April 5, 2002

Sir:

Please enter the following amendments to the claims, prior to the examination of the application during the U.S. National Phase.

IN THE CLAIMS:

Please amend the claims as follows: **(A copy of a marked up version with markings to show changes made is attached hereto.)**

3. (Amended) A system according to claim 1, wherein, the processor means is arranged to derive the orientation of features measured by the sensor means relative to the base measurement system.

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4. (Amended) A system according to claim 1, wherein the sensor means is a laser stripe scanner.
5. (Amended) A system according to claim 1, wherein the base measurement system comprises at least one imaging device and/or at least one laser tracker.
6. (Amended) A system according to claim 1, wherein the sensor means comprises at least one position indicating means having a light source and a retro-reflector.
7. (Amended) A system according to claim 1, further comprising memory means associated with the processor means, the memory means storing CAD data relating to the sensor means.
8. (Amended) A system according to claim 1, further comprising handling means arranged to manipulate the sensor means and a tool mounted on the handling means.
11. (Amended) A component or structure whose manufacture includes the method of claim 9.
12. (Amended) An aircraft whose manufacture includes the method of claim 9.

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13. (Amended) A computer program comprising program code means for performing the method steps of claim 9 when the program is run on a computer and/or other processing means associated with suitable measurement devices.

14. (Amended) A computer program product comprising program code means stored on a computer readable medium for performing the method steps of claim 9 when the program is run on a computer and/or other processing means associated with suitable measurement devices.

(Applicant's Remarks are set forth hereinbelow, starting on the following page.)

Entry of the amendments to the claims, before examination of the application in the U.S. National Phase is respectfully requested.

If necessary to effect a timely response, this paper should be considered as a petition for an Extension of Time sufficient to effect a timely response, and please charge any deficiency in fees or credit any overpayments to Deposit Account No. 05-1323 (Docket #2101/50762).

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VERSION WITH MARKINGS TO SHOW CHANGES MADE TO THE CLAIMS

3. (Amended) A system according to claim 1, [or claim 2,] wherein, the processor means is arranged to derive the orientation of features measured by the sensor means relative to the base measurement system.

4. (Amended) A system according to [any preceding claim,] claim 1, wherein the sensor means is a laser stripe scanner.

5. (Amended) A system according to [any preceding claim,] claim 1, wherein the base measurement system comprises at least one imaging device and/or at least one laser tracker.

6. (Amended) A system according to [any preceding claim,] claim 1, wherein the sensor means comprises at least one position indicating means having a light source and a retro-reflector.

7. (Amended) A system according to [any preceding claim,] claim 1, further comprising memory means associated with the processor means, the memory means storing CAD data relating to the sensor means.

8. (Amended) A system according to [any preceding claim,] claim 1, further comprising handling means arranged to manipulate the sensor means and a tool mounted on the handling means.

11. (Amended) A component or structure whose manufacture includes the method of [claims 9 or 10.] claim 9.

12. (Amended) An aircraft whose manufacture includes the method of [claims 9 or 10.] claim 9.

13. (Amended) A computer program comprising program code means for performing the method steps of [claims 9 or 10] claim 9 when the program is run on a computer and/or other processing means associated with suitable measurement devices.

14. (Amended) A computer program product comprising program code means stored on a computer readable medium for performing the method steps of [claims 9 or 10] claim 9 when the program is run on a computer and/or other processing means associated with suitable measurement devices.